

WHAT IS CLAIMED IS:

1. A system constructed by a base station and a plurality of terminals existing in a service zone which is formed by said base station, wherein said base station includes:

(a) wireless communicating means for communicating with said plurality of terminals in a wireless manner; and

(b) identification information allocating means for allocating base station identification information for specifying an arbitrary one of said plurality of terminals on the basis of a predetermined condition to said arbitrary terminal at a timing of forming a link with said arbitrary terminal.

2. A system according to claim 1, further comprising reception notifying means for notifying of a reception to said arbitrary terminal by using said base station identification information allocated by said identification information allocating means.

3. A system according to claim 1, further comprising registration notifying means for notifying said system of unique base station information for specifying a self base station and said base station identification information allocated to said arbitrary terminal by said identification information allocating

means as information for specifying said arbitrary terminal in said system.

4. A system according to claim 1, further  
5 comprising managing means for managing a correlation between said arbitrary terminal and said base station identification information allocated to said arbitrary terminal.

10 5. A system according to claim 1, further comprising:

link establishment request receiving means for receiving, from said arbitrary terminal, a link establishment request using at least any of unique  
15 terminal information for specifying said arbitrary terminal, base station identification information allocated from a base station other than a self base station to said arbitrary terminal, and unique base station information for specifying said another base  
20 station; and

link establishment processing means for executing a link establishing process with said arbitrary terminal on the basis of the reception information received by said link establishment request receiving  
25 means.

6. A system according to claim 5, further

comprising registration deletion request means for  
requesting said another base station to delete the  
registration of said base station identification  
information allocated from said another base station to  
5 said arbitrary terminal.

7. A system according to claim 1, further  
comprising:

10 registration deletion request receiving means for  
receiving a registration deletion request of said base  
station identification information allocated by said  
identification information allocating means from said  
base station; and

15 registration deleting means for executing the  
registration deletion of said base station  
identification information on the basis of the  
registration deletion request received by said  
registration deletion request receiving means.

20 8. A system according to claim 7, wherein said  
registration deletion request receiving means uses the  
base station identification information whose  
registration was deleted by said registration deleting  
means as an object of allocatable base station  
25 identification information.

9. A communicating method in a system constructed

by a base station and a plurality of terminals existing in a service zone which is formed by said base station, comprising the steps of:

- (a) forming a link for wireless communication with  
5 said plurality of terminals; and  
(b) allocating base station identification  
information for specifying an arbitrary terminal on the  
basis of a predetermined condition to said arbitrary  
terminal at a timing of forming said link.

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10. A method according to claim 9, further  
comprising the step of notifying of a reception to said  
arbitrary terminal by using said base station  
identification information allocated to an arbitrary  
wireless terminal from said wireless base station in  
said identification information allocating step.

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11. A method according to claim 9, further  
comprising the step of specifying said terminal for  
said system by using unique base station information  
for specifying said base station and said base station  
identification information.

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12. A method according to claim 9, further  
comprising the step of temporarily storing a  
correlation between terminal information and said base  
station identification information and managing.

13. A method according to claim 9, further comprising the step of:

when said terminal requests to form a link,  
requesting a link establishment using an identifier of  
5 said base station to an arbitrary wireless base station  
to which said base station identification information  
has been allocated in said identification information  
allocating step, and requesting a link establishment  
using unique terminal information for specifying said  
10 arbitrary wireless terminal to a wireless base station  
other than said arbitrary wireless base station.

14. A method according to claim 13, further  
comprising the step of requesting said another wireless  
15 base station to delete the registration of said base  
station identification information from said base  
station through a wire communication path in the case  
where the link between said terminal and said base  
station has been established.

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15. A storage medium in which a processing  
program for embodying functions according to claim 9  
has been stored in a computer-readable state.

25 16. A communication system comprising:

(a) a wireless control device, connected to a  
plurality of base stations, for controlling

communication between said base stations;

(b) a base station for forming each zone together with a plurality of terminals; and

(c) said terminal connected to each of said base  
5 stations,

wherein said base station allocates unique identification information to each of said terminals in a self zone at a predetermined timing and manages said identification information.

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17. A system according to claim 16, wherein said base station notifies said wireless control device of said identification information and the information of said terminal corresponding to said identification  
15 information.

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18. A system according to claim 16, wherein said wireless control device connects each of said base stations to an outside through various media.

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19. A system according to claim 18, wherein said media is an ISDN network.

20. A system according to claim 18, wherein said  
25 media is an ATM network.

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21. A system according to claim 18, wherein said media is an LAN.